

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR03/01586

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H04Q 7/22

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC H04Q7/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and applications for inventions since 1975  
Korean Utility models and applications for Utility models since 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Korean Patent and Utility model search system

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 2001-95885 A(DANAL CO., LTD) 07.NOV.2001 see the whole document	8-14
A	KR 2002-30381 A(ADN CO., LTD) 25.APR.2002 see the whole document	1
A	US 5926537 A(ERICSSON INC) 20.JUL.1999 see the whole document	1

 Further documents are listed in the continuation of Box C. See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search  
26 NOVEMBER 2003 (26.11.2003)Date of mailing of the international search report  
26 NOVEMBER 2003 (26.11.2003)Name and mailing address of the ISA/KR  
 Korean Intellectual Property Office  
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Republic of Korea  
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Information on patent family membersInternational application No.  
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 2001-95885 A	07.NOV.2001	NONE	
KR 2002-30381 A	25.APR.2002	NONE	
US 5926537 A	20.JUL.1999	W09849822 A1 AU7263098 A1	05.11.1998 24.11.1998